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1627

TECH CENTER 1600/2900

RAW SEQUENCE LISTING

1 <110> APPLICANT: CHOO, YEN

DATE: 03/05/2002

PATENT APPLICATION: US/09/424,482C

Input Set: N:\Crf3\02212002\I424482A.raw
Output Set: N:\CRF3\03052002\I424482C.raw

TIME: 13:08:30

世20

```
KLUG, AARON
     2
             ISALAN, MARK
     3
     4 <120> TITLE OF INVENTION: NUCLEIC ACID BINDING POLYPEPTIDE LIBRARY
     5 <130> FILE REFERENCE: 71278/264974/BET
C--> 6 <140> CURRENT APPLICATION NUMBER: US/09/424,482C
     7 <141> CURRENT FILING DATE: 2000-06-29
     8 <150> PRIOR APPLICATION NUMBER: 09/424,482
     9 <151> PRIOR FILING DATE: 1999-11-23
     10 <150> PRIOR APPLICATION NUMBER: PCT/GB98/01510
     11 <151> PRIOR FILING DATE: 1998-05-26
                                                                 ENTERED
     12 <150> PRIOR APPLICATION NUMBER: GB 9710809.6
    13 <151> PRIOR FILING DATE: 1997-05-23
    14 <160> NUMBER OF SEQ ID NOS: 114
     15 <170> SOFTWARE: PatentIn version 2.1
    17 <210> SEO ID NO: 1
    18 <211> LENGTH: 9
     19 <212> TYPE: DNA
     20 <213> ORGANISM: Artificial Sequence
     21 <220> FEATURE:
     22 <223> OTHER INFORMATION: Description of Artificial Sequence: LIB-A DNA sorting
             sequence
     24 <221> NAME/KEY: modified_base
     25 <222> LOCATION: (2)
     26 <223> OTHER INFORMATION: a, t, c or g
     27 <221> NAME/KEY: modified_base
     28 <222> LOCATION: (3)..(4)
     29 <223> OTHER INFORMATION: variable nucleotide
     30 <400> SEQUENCE: 1
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W--> 31
     33 <210> SEQ ID NO: 2
     34 <211> LENGTH: 9
     35 <212> TYPE: DNA
     36 <213> ORGANISM: Artificial Sequence
     37 <220> FEATURE:
     38 <223> OTHER INFORMATION: Description of Artificial Sequence: LIB-B DNA sorting
             sequence
     40 <221> NAME/KEY: modified_base
     41 <222> LOCATION: (3)..(4)
     42 <223> OTHER INFORMATION: variable nucleotide
     43 <400> SEQUENCE: 2
                                                                                     9
W--> 44
             gcnncggcg
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46 <210> SEQ ID NO: 3

9

RAW SEQUENCE LISTING DATE: 03/05/2002 PATENT APPLICATION: US/09/424,482C TIME: 13:08:30

Input Set : N:\Crf3\02212002\I424482A.raw
Output Set: N:\CRF3\03052002\I424482C.raw

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47 <211> LENGTH: 9
    48 <212> TYPE: DNA
    49 <213> ORGANISM: Artificial Sequence
    50 <220> FEATURE:
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    53 <221> NAME/KEY: modified_base
    54 <222> LOCATION: (5)..(9)
    55 <223> OTHER INFORMATION: Any given nucleotide
    56 <400> SEQUENCE: 3
W--> 57
             gcggnnnnn
    59 <210> SEQ ID NO: 4
    60 <211> LENGTH: 31
    61 <212> TYPE: PRT
    62 <213> ORGANISM: Artificial Sequence
    63 <220> FEATURE:
    64 <223> OTHER INFORMATION: Description of Artificial Sequence: Zinc finger
    65 <221> NAME/KEY: MOD_RES
    66 <222> LOCATION: (1)..(2)
    67 <223> OTHER INFORMATION: Any amino acid
    68 <221> NAME/KEY: MOD_RES
    69 <222> LOCATION: (4)..(8)
    70 <223> OTHER INFORMATION: Any amino acid
    71 <221> NAME/KEY: MOD_RES
    72 <222> LOCATION: (10)..(23)
    73 <223> OTHER INFORMATION: Any amino acid
    74 <221> NAME/KEY: MOD_RES
    75 <222> LOCATION: (25)..(30)
    76 <223> OTHER INFORMATION: Any amino acid
    77 <221> NAME/KEY: MOD_RES
    78 <222> LOCATION: (31)
    79 <223> OTHER INFORMATION: His or Cys
    80 <223> OTHER INFORMATION: Positions 1-2 may vary in length from
             0-2 residues
    82 <223> OTHER INFORMATION: Positions 4-8 may vary in length from
             1-5 residues
    84 <223> OTHER INFORMATION: Positions 10-23 may vary in length from
             9-14 residues
    86 <223> OTHER INFORMATION: Positions 25-30 may vary in length from
    87
             3-6 residues
    88 <400> SEQUENCE: 4
             W--> 89
    90
W--> 91
             92
                         20
    94 <210> SEQ ID NO: 5
    95 <211> LENGTH: 24
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96 <212> TYPE: PRT

97 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING DATE: 03/05/2002 PATENT APPLICATION: US/09/424,482C TIME: 13:08:30

Input Set : N:\Crf3\02212002\I424482A.raw
Output Set: N:\CRF3\03052002\I424482C.raw

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98 <220> FEATURE:
    99 <223> OTHER INFORMATION: Description of Artificial Sequence: Zinc finger
    100 <221> NAME/KEY: MOD_RES
    101 <222> LOCATION: (1)
    102 <223> OTHER INFORMATION: Any amino acid
    103 <221> NAME/KEY: MOD_RES
    104 <222> LOCATION: (3)..(6)
    105 <223> OTHER INFORMATION: Any amino acid
    106 <221> NAME/KEY: MOD_RES
    107 <222> LOCATION: (8)..(10)
    108 <223> OTHER INFORMATION: Any amino acid
    109 <221> NAME/KEY: MOD_RES
    110 <222> LOCATION: (12)..(16)
    111 <223> OTHER INFORMATION: Any amino acid
    112 <221> NAME/KEY: MOD_RES
    113 <222> LOCATION: (15)..(16)
    114 <223> OTHER INFORMATION: Any amino acid
    115 <221> NAME/KEY: MOD_RES
    116 <222> LOCATION: (18)..(19)
    117 <223> OTHER INFORMATION: Any amino acid
    118 <221> NAME/KEY: MOD_RES
    119 <222> LOCATION: (21)..(23)
    120 <223> OTHER INFORMATION: Any amino acid
    121 <223> OTHER INFORMATION: Positions 3-6 may vary in length from
              2-4 residues
    122
    123 <223> OTHER INFORMATION: Positions 8-10 may vary in length from
              2-3 residues
    124
    125 <400> SEQUENCE: 5
              Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Aaa Xaa Xaa Xaa Xaa
W--> 126
    127
W--> 128
              Leu Xaa Xaa His Xaa Xaa Xaa His
                            20
    131 <210> SEQ ID NO: 6
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    133 <212> TYPE: PRT
    134 <213> ORGANISM: Artificial Sequence
    135 <220> FEATURE:
    136 <223> OTHER INFORMATION: Description of Artificial Sequence: Linker
    137 <400> SEQUENCE: 6
    138
               Thr Gly Glu Lys
    139
    141 <210> SEQ ID NO: 7
    142 <211> LENGTH: 5
    143 <212> TYPE: PRT
     144 <213> ORGANISM: Artificial Sequence
     145 <220> FEATURE:
     146 <223> OTHER INFORMATION: Description of Artificial Sequence: Linker
     147 <400> SEQUENCE: 7
     148
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RAW SEQUENCE LISTING DATE: 03/05/2002 PATENT APPLICATION: US/09/424,482C TIME: 13:08:30

Input Set : N:\Crf3\02212002\1424482A.raw
Output Set: N:\CRF3\03052002\1424482C.raw

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    152 <211> LENGTH: 26
    153 <212> TYPE: PRT
    154 <213> ORGANISM: Artificial Sequence
    155 <220> FEATURE:
    156 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus
              structure sequence
    157
    158 <400> SEQUENCE: 8
              Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Lys Ser Asp
    159
                                                   10
    160
              Leu Val Lys His Gln Arg Thr His Thr Gly
    161
    162
    164 <210> SEQ ID NO: 9
    165 <211> LENGTH: 29
    166 <212> TYPE: PRT
    167 <213> ORGANISM: Artificial Sequence
    168 <220> FEATURE:
    169 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus
              structure sequence
    171 <400> SEQUENCE: 9
               Pro Tyr Lys Cys Ser Glu Cys Gly Lys Ala Phe Ser Gln Lys Ser Asn
    172
    173
                                                   10
              Leu Thr Arg His Gln Arg Ile His Thr Gly Glu Lys Pro
    174
                                               25
    175
                           20
    177 <210> SEQ ID NO: 10
    178 <211> LENGTH: 6
    179 <212> TYPE: PRT
    180 <213> ORGANISM: Artificial Sequence
    181 <220> FEATURE:
    182 <223> OTHER INFORMATION: Description of Artificial Sequence: Leader peptide
    183 <400> SEQUENCE: 10
              Met Ala Glu Glu Lys Pro
                               5
    185
              1
    187 <210> SEQ ID NO: 11
    188 <211> LENGTH: 9
    189 <212> TYPE: DNA
    190 <213> ORGANISM: Artificial Sequence
    191 <220> FEATURE:
    192 <223> OTHER INFORMATION: Description of Artificial DNA: LIB 2/3 DNA
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    193
    194 <221> NAME/KEY: modified_base
     195 <222> LOCATION: (1)..(5)
     196 <223> OTHER INFORMATION: Any given nucleotide
    197 <400> SEQUENCE: 11
W--> 198
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     200 <210> SEQ ID NO: 12
     201 <211> LENGTH: 9
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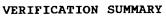
9

202 <212> TYPE: DNA

RAW SEQUENCE LISTING DATE: 03/05/2002 PATENT APPLICATION: US/09/424,482C TIME: 13:08:30

Input Set : N:\Crf3\02212002\1424482A.raw
Output Set: N:\CRF3\03052002\1424482C.raw

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203 <213> ORGANISM: Artificial Sequence
    204 <220> FEATURE:
    205 <223> OTHER INFORMATION: Description of Artificial Sequence: Zinc finger -DNA
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    207 <400> SEQUENCE: 12
                                                                                        9
    208
               cgcccacgc
    210 <210> SEQ ID NO: 13
    211 <211> LENGTH: 9
     212 <212> TYPE: DNA
     213 <213> ORGANISM: Artificial Sequence
     214 <220> FEATURE:
     215 <223> OTHER INFORMATION: Description of Artificial Sequence: Zinc finger-DNA
               interaction sequence
     217 <400> SEQUENCE: 13
                                                                                        9
     218
              acgcccacg
     220 <210> SEQ ID NO: 14
    221 <211> LENGTH: 9
     222 <212> TYPE: DNA
     223 <213> ORGANISM: Artificial Sequence
     224 <220> FEATURE:
     225 <223> OTHER INFORMATION: Description of Artificial Sequence: Zinc finger-DNA
     226
               interaction sequence
     227 <400> SEQUENCE: 14
                                                                                        9
     228
               gcgtgggcg
     230 <210> SEQ ID NO: 15
     231 <211> LENGTH: 9
     232 <212> TYPE: DNA
     233 <213> ORGANISM: Artificial Sequence
     234 <220> FEATURE:
     235 <223> OTHER INFORMATION: Description of Artificial Sequence: Zinc finger-DNA
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     237 <221> NAME/KEY: modified_base
     238 <222> LOCATION: (7)..(9)
     239 <223> OTHER INFORMATION: Any given nucleotide
     240 <400> SEQUENCE: 15
                                                                                        9
W--> 241
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     243 <210> SEQ ID NO: 16
     244 <211> LENGTH: 36
     245 <212> TYPE: PRT
     246 <213> ORGANISM: Artificial Sequence
     247 <220> FEATURE:
     248 <223> OTHER INFORMATION: Description of Artificial Sequence: LIB-A and
               LIB-B Zinc finger
     249
     250 <400> SEQUENCE: 16
               Met Ala Glu Glu Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg
     251
     252
                                                    10
               Arg Phe Ser Arg Ser Asp Glu Leu Thr Arg His Ile Arg Ile His Thr
     253
     254
     255
               Gly Gln Lys Pro
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DATE: 03/05/2002 TIME: 13:08:31

PATENT APPLICATION: US/09/424,482C

Input Set : N:\Crf3\02212002\I424482A.raw
Output Set: N:\CRF3\03052002\I424482C.raw

L:6 M:270 C: Current Application Number differs, Wrong Format
L:31 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:44 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:91 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18